## I claim:

1. A field serviceable limit switch with an alerter.

a base;

a housing supported on said base, said housing having a chamber therein;

a cam shaft, said cam shaft rotationally supported by said housing, said cam shaft having a cam latch thereon;

a cam, said cam removable secured to said cam shaft by said cam latch; an indicator, said indicator connected to said cam shaft for providing alert information;

an interface device, said interface device removably supported by said housing; an electrical terminal holder secured in said housing, said electrical terminal holder having a terminal holder latch;

an electrical terminal block, said terminal holder latch releasably securing said electrical terminal block to said terminal holder;

a switch;

a switch holder, said switch holder secured in said housing, said switch holder having a switch holder latch thereon, said switch holder latch releasably securing said switch in said switch holder to facilitate replacement thereof; and

a wire guard, said wire guard shielding said cam shaft from rotational interference.

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- 2. The field service limit switch of claim 2 including a cover for securing to said housing.
- 3. The field serviceable limit switch of claim 2 including a set of latches on said25 housing for securing a cover to said housing.

- 4. The field serviceable limit switch of claim 1 wherein the switch holder is frictionally secured in said housing.
- 5. The field serviceable limit switch of claim 1 wherein the terminal block holder is5 frictionally secured in said housing.
  - 6. The field serviceable limit switch of claim 1 wherein the indicator includes a region with a first marking and an adjacent region with a second marking with said second marking different from said first marking.

- 7 The field serviceable limit switch of claim 1 wherein the wire guard extends partially around said cam shaft.
- 8. The field serviceable limit switch of claim 1 wherein said cam includes a plurality of lobes for actuating the switch.
  - 9. The field serviceable limit switch of claim 1 including a transparent dome for viewing the indicator therethrough.
- 20 10. A field serviceable limit switch comprising:
  - a housing;
  - an electrical switch removably mounted in said housing;
  - a cam shaft removably and rotationally mounted in said housing, said cam shaft carrying a cam for activation of the electrical switch; and
- an indicator, said indicator connected to said cam shaft to provide a status indication in response to a rotation of said cam shaft.

- 11. The field service limit switch of claim 10 including a removable terminal block holder located in a chamber in said housing.
- 12. The field service limit switch of claim 11 including a removable terminal block5 mounted on said terminal block holder.
  - 13. The field service limit switch of claim 12 including a wire guard extending at least partially around said cam shaft.
- 10 14. The field service limit switch of claim 10 wherein the cam is removable mounted on said cam shaft.
  - 15. The field service limit switch of claim 10 including a transducer removably mounted in said housing for interfacing signals between a pneumatic device and an electrical
  - 16. The field service limit switch of claim 10 including a set of latches secured to said housing for securing a cover to said housing.
- 17. The field service limit switch of claim 10 wherein the indicator comprises a rotatable20 disk like member.
  - 18. The field service limit switch of claim 17 wherein a transparent shield cover the indicator to allow the indicator to be viewed from two mutually perpendicular directions.
- 25 19. The field service limit switch of claim 10 wherein the housing is plastic.
  - 20. A field serviceable limit switch comprising:

- a housing;
- a cover for said housing;
- a cam shaft, said cam shaft rotationally mounted in said housing, said cam shaft carrying a cam; and
- an indicator, said indicator connected to said cam shaft to provide a status indication in response to a rotation of said cam shaft with at least one of said cam shaft or said indictor field replaceable.
- 21. The field serviceable limit switch of claim 20 wherein the cam is latchable to said10 cam shaft.
  - 22. The field serviceable limit switch of claim 20 wherein the indicator is supported in a transparent indicator cover.
- 15 23. The field serviceable limit switch of claim 20 wherein the limit switch includes at least four different replaceable components.
  - 24. The field serviceable limit switch of claim 20 including an electrical terminal block latchable to a terminal block holder.
  - 25. The field serviceable limit switch of claim 24 wherein the terminal block holder is frictionally secured to said housing.
- 26. The field service limit switch of claim 20 wherein an electrical switch is confined in25 a switch holder.
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30. A field service limit switch comprising:

a housing, said housing having a first frictional member for engaging a switch holder and a second frictional member for engaging a terminal block holder with said switch holder carrying replaceable electrical switches and said terminal block holder carrying a replaceable terminal block.

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- 31 The field service limit switch of claim 30 wherein the housing includes a set of snap latches for securing a cover to said housing.
- 32. The field serviceable limit switch of claim 31 wherein a finger removable terminal
  block, a finger removable cam and a finer removable electrical switch are located in a chamber in said housing.